Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

- 1. (Currently Amended) A method of tuning a cardiac prosthetic pacing device, the method comprising the steps of:
 - (a) monitoring the flow output from the heart <u>utilizing a transcutaneous continuous wave</u>
 <u>Doppler signal directed at the heart to obtain a signal indicative of intra-cardiac blood flow velocity;</u>
 - (b) processing the signal to obtain a velocity time integral; and
 - (c) adjusting the timing of pacing events by said cardiac prosthetic pacing device so as to optimise the flow from the heart under operational conditions.

2. (Canceled)

- 3. (Original) A method as claimed in claim 1 wherein said method is repeated under a number of different operational conditions for a patient including walking AND/OR running.
- 4. (Original) A method as claimed in claim 1 wherein said method is repeated under a number of different pharmalogical conditions for a patient.
- 5. (Currently Amended) An apparatus for tuning a cardiac prosthetic pacing device, the apparatus including:

monitoring means for non-invasively monitoring the flow of blood out of the heart using transcutaneous wave Doppler directed at the heart to obtain a signal indicative of intra-cardiac blood flow velocity;

control means for controlling the operation of the cardiac prosthetic pacing device including variation of the pacing rate; and

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processing means interconnected to said monitoring means and said control means, said processing means processing the signal to obtain a velocity time integral, and instructing said control means to vary the pacing rate of said cardiac prosthetic pacing device and monitor the corresponding measurement of said monitoring means.

6-8. (Canceled)